

## LIST OF PARAMETERS AND DEFAULT VALUES

UNIT = ----- SERIAL N. = ----- DATE = **03/10/2008** SOFTWARE = **TELECOM\_07**  
 pCO address = 1 PGD address = 3 Driver address DRV1 = -

Scr.	Par.	Description	Default	Special value	Range	UOM
<b>User Menu</b>						
U2	1	Setpoint for enabling free-cooling function	3.0		3.0 - 10.0	°C
U2	2	Differential for enabling free-cooling function	2.0		0.0 - 10.0	°C
U3	1	Setpoint for enabl. slave unit free-cooling function	22.0		18.0 - 30.0	°C
U3	2	Differential for enabl. slave unit free-cooling function	2.0		2.0 - 3.0	°C
U4	1	Master heating element activation setpoint	5.0		0 - 25.0	°C
U4	2	Master heating element activation differential	4.0		2.0 - 4.0	°C
U5	1	Slave heating element activation setpoint	3.0		0 - 25.0	°C
U5	2	Slave heating element activation differential	4.0		2.0 - 4.0	°C
U6	1	Master unit compressor activation setpoint	27.0		18.0 - 30.0	°C
U6	2	Master unit compressor activation differential	4.0		2.0 - 8.0	°C
U7	1	Slave unit compressor activation setpoint	30.0		18.0 - 30.0	°C
U7	2	Slave unit compressor activation differential	4.0		2.0 - 8.0	°C
U8	1	Setpoint for diverter modulation of outlet temperature	10.0		5.0 - 20.0	°C
U8	2	Differential for diverter modulation of outlet temperature	4.0		2.0 - 4.0	°C
U9	1	Enable high temp. alarm	YES		NO - YES	-
Ua	1	High temperature alarm activation setpoint	40.0		20.0 - 45.0	°C
Ua	2	High temperature alarm activation differential	5.0		2.0 - 8.0	°C
Ub	1	Delay in activation of high temperature alarm	0		0 - 60	s
Uc	1	Enable max temp. alarm	YES		NO - YES	-
Ud	1	Max temp. alarm activation setpoint	50.0		20.0 - 55.0	°C
Ud	2	Max temp. alarm activation differential	5.0		2.0 - 8.0	°C
Ue	1	Delay in activation of max temperature alarm	0		0 - 60	s
Uf	1	Enable min temp. alarm	YES		NO - YES	-
Ug	1	Min temp. alarm activation setpoint	3.0		-10.0 - 20.0	°C
Ug	2	Min temp. alarm activation differential	4.0		2.0 - 8.0	°C
Uh	1	Delay in activation of min temperature alarm	0		0 - 60	s
Ui	1	Enable F.C. fault alarm	YES		NO - YES	-
Uj	1	Setpoint for activating F.C. fault alarm in relation to ambient temperature	12.0		10.0 - 30.0	°C
Uj	2	Differential for activating F.C. fault alarm in relation to ambient temperature	0		0.0 - 4.0	°C
Uk	1	Setpoint for activating F.C. fault alarm in relation to outlet air and ambient temperature	2.0		2.0 - 10.0	°C
Uk	2	Differential for activating F.C. fault alarm in relation to outlet air and ambient temperature	0.0		0.0 - 4.0	°C
Ul	1	Delay in activation of F.C. fault alarm	0		0 - 60	s
Um	1	Enable compressor operating threshold exceeded alarm	YES		NO - YES	-
Un	1	Operating threshold for compressor maintenance	5000		0 - 10000	h
Uo	1	Enable evaporator fan operating threshold exceeded alarm	YES		NO - YES	-
Up	1	Operating threshold for evaporator fan maintenance (hours)	5000		0 - 10000	h
Uq	1	Humah comfort switch activate delay	2		0 - 30	s
Uq	2	Humah comfort switch deactivate delay	30		0- 999	min
Ur	1	Human comfort switch high temperature setpoint	29.0		-99.9 - 99.9	°C
Ur	2	Human comfort switch low temperature setpoint	8.0		-99.9 - 99.9	°C
Ur	3	Human comfort switch differential	3.0		0 - 10.0	°C
Us	1	Configuration of digital output 8 with separated alarms	BLOCK ALARM		BLOCK ALARM - GENERAL ALARM	-
Ut	1	Enable debug masks	NO		NO - YES	-
Uu	1	New user password	----		0 - 9999	-
<b>Manufacturer Menu</b>						
M0	1	Unit configuration	ON LAN UNIT	<b>STAND ALONE</b>	ON LAN UNIT - STAND ALONE UNIT	-
M0	2	LAN logic type	CASCADE		CASCADE - STAND-BY ROTATION	
M1	1	Enable freecooling	YES	<b>NO</b>	NO - YES	-
M2	1	FC with temperature control	YES		NO - YES	-
M2	2	FC temperature control band	3.0		0 - 99.9	°C
M3	1	Electrical heater presence	NO		NO - YES	
M4	1	Enable the external temp. probe	YES	<b>NO</b>	NO - YES	-
M4	2	Enable the condensing pressure probe	YES		NO - YES	-
M5	1	Offset for probe B1 calibration	0.0		-5.0 - 5.0	bar
M5	2	Offset for probe B2 calibration	0.0		-5.0 - 5.0	°C
M5	3	Offset for probe B3 calibration	0.0		-5.0 - 5.0	°C

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M5	4	Offset for probe B4 calibration	0.0		-5.0 - 5.0	°C
M5	5	Offset for probe B5 calibration	0.0		-5.0 - 5.0	°C
M6	1	Pressure probe lower limit	0.0		0 - 5.0	bar
M6	2	Pressure probe upper limit	30.0		25.0 - 30.0	bar
M7	1	Enable probe fault alarm management	YES		NO - YES	-
M8	1	Enable probe B1 alarm	YES		NO - YES	-
M8	2	Enable probe B3 alarm	YES		NO - YES	-
M8	3	Enable probe B4 alarm	YES		NO - YES	-
M8	4	Enable probe B5 alarm	YES		NO - YES	-
M9	1	Delay in probe fault alarm	10		0 - 600	s
Ma	1	Enable digital input filter	NO		NO - YES	-
Ma	2	Filtering time	5		0 - 999	s
Mb	1	Evaporator fan speed	100.0		0 - 100.0	%
Mc	1	Evaporator fan speed with free-cooling and compressor off	100.0		Mb-1 - 100.0	%
Md	1	Lower limit of 0-10V output regulating condenser fan speed	0		0 - 10.0	V
Md	2	Upper limit of 0-10V output regulating condenser fan speed	3.5		0 - 10.0	V
Me	1	Condensation control setpoint	11.0		0 - 30.0	bar
Me	2	Condensation control band	10.0		0 - 10.0	bar
Mf	1	Inversion of 0-10V output to 10-0V for diverter regulation	YES		NO - YES	-
Mf	2	Minimum diverter regulation value	90.0		0 - 100.0	%
Mf	3	Maximum diverter regulation value	0.0		0 - 100.0	%
Mg	1	Enable temperature from keyboard	NO		NO - YES	-
Mg	2	Enable pressure from keyboard	NO		NO - YES	-
Mh	1	Enable analog outputs from keyboard	NO		NO - YES	-
Mi	1	Enable analog output Y1 from keyboard	NO		NO - YES	-
Mi	2	Enable analog output Y2 from keyboard	NO		NO - YES	-
Mi	3	Enable analog output Y3 from keyboard	NO		NO - YES	-
Mj	1	Enable digital inputs from keyboard	NO		NO - YES	-
Mj	2	Enable digital outputs from keyboard	NO		NO - YES	-
Mk	1	Enable probe-activated high pressure alarm	NO		NO - YES	-
MI	1	Probe-activ. high pressure alarm setpoint	28.0		M6-1 - M6-2	bar
MI	2	Probe-activ. high press. alarm differential	2.0		0 - 10.0	bar
MI	3	Delay in probe-activ. high press. alarm	0		0 - 9999	s
Mm	1	Probe-activ. high press. alarm resetting	MAN		AUT - MAN	-
Mn	1	Enable pressure switch-activated high pressure alarm	YES		NO - YES	-
Mo	1	Delay in pressure switch-activated high pressure alarm	0		0 - 999	s
Mp	1	Pressure switch-activated high pressure alarm resetting	MAN		AUT - MAN	-
Mq	1	Enable minimum outlet pressure alarm	NO		NO - YES	-
Mr	1	Minimum outlet pressure alarm setpoint	7.0		0 - MI-1	bar
Mr	2	Minimum outlet pressure alarm differential	2.0		0 - 99.9	bar
Mr	3	Delay in probe-activ. min. pressure alarm	10		0 - 9999	s
Ms	1	Probe-activ. min. pressure alarm resetting	MAN		AUT - MAN	-
Mt	1	Enable pressure switch-activated low pressure alarm	YES		NO - YES	-
Mu	1	Delay in pressure switch-activated low pressure alarm at start-up	120		0 - 9999	s
Mu	2	Delay in pressure switch-activated low pressure alarm during normal operation	0		0 - 9999	s
Mv	1	Probe-activated low pressure alarm resetting	MAN		AUT - MAN	-
Mw	1	Enable air flow alarm	YES		NO - YES	-
Mx	1	Delay in air flow alarm	30		0 - 9999	s
My	1	Air flow alarm resetting	MAN		AUT - MAN	-
Mz	1	Disable air flow alarm at start-up of evaporator fan	YES		NO - YES	-
N1	1	Delay in air flow alarm	20		0 - 999	s
N2	1	Enable dirty filters alarm	YES	<b>NO</b>	NO - YES	-
N3	1	Delay in dirty filters alarm	30		0 - 9999	s
N4	1	Dirty filters alarm resetting	MAN		AUT - MAN	-
N5	1	Enable compressor thermal alarm	YES		NO - YES	-
N6	1	Compressor thermal alarm resetting	MAN		AUT - MAN	-
N7	1	Delay in compressor thermal alarm	0		0 - 9999	s
N8	1	Configuration of digital input 7	HEATER ALARM		HEATER ALARM - FIRE ALARM	-
N9	1	Enable heating element alarm (thermal switch)	YES		NO - YES	-

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Na	1	Heating element alarm resetting (thermal switch)	MAN		AUT - MAN	-
Nb	1	Delay in heating element alarm (thermal switch)	0		0 - 9999	s
Nc	1	Enable fire alarm	NO		NO - YES	-
Nd	1	Fire alarm resetting	AUT		AUT - MAN	-
Nd	2	Delay in fire alarm	0		0 - 9999	s
Ne	1	Enable phase direction or minimum voltage alarm	YES		NO - YES	-
Nf	1	Phase direction or minimum voltage alarm resetting	AUT		AUT - MAN	-
Ng	1	Delay in phase direction or minimum voltage alarm	0		0 - 9999	s
Nh	1	Enable temperature alarm only if evaporator fan is on	YES		NO - YES	-
Ni	1	Enable minimum evaporator fan speed alarm	YES		NO - YES	-
Nj	1	Minimum evaporator fan speed	60.0		0.0 - 100.0	%
Nk	1	Delay in minimum evaporator fan speed alarm	0		0.0 - 9999	s
Nl	1	Differential for re-enabling of compressor after a stop due to low outlet temp.	4.0		0.0 - 99.9	°C
Nm	1	Enable functional alarm	YES		NO - YES	-
Nn	1	Separated alarm enable	YES		NO - YES	-
No	1	Block fault alarm enable	YES		NO - YES	-
Np	1	Enable pLan alarm	YES		NO - YES	-
Nq	1	Delay in pLan alarm	60		0 - 600	s
Nr	1	Minimum time a compressor must remain on	10		0 - 9999	s
Nr	2	Minimum time a compressor must remain off	360		0 - 9999	s
Nr	3	Minimum time interval between two start-ups of the same compressor	360		0 - 9999	s
Ns	1	Enable condensation fan to start before compressor	YES		NO - YES	-
Nt	1	Amount of time in advance the condensation fan will start up	10		0 - 9999	s
Nt	2	Cond. fan speed during advance operat.	100.0		0 - 100.0	%
Nu	1	Cond. fan speed with pressure probe fault alarm	100.0		0 - 100.0	%
Nv	1	Duration of special mgmt. function after power failure	60		0 - 9999	s
Nw	1	Operating time of free-cooling diverter	20		0 - 999	s
Nx	1	Enable remote control input	YES		NO - YES	-
Ny	1	Unit cut-in sequence reset time	24		0 - 999	hours
Ny	2	Rotation timer adjust	3600		0 - 9999	s
Nz	1	Enable master/slave from keyboard	NO		NO - YES	-
Nz	2	Master/slave selection from keyboard	MASTER		MASTER - SLAVE	-
O1	1	Enable human comfort switch	NO		NO - YES	-
O1	2	Human comfort switch logic type	N.O.		N.O. - N.C.	-
O2	1	Enable display backlighting management	YES		NO - YES	-
O3	1	Delay in switching off of display backlighting	30		0 - 999	s
O4	1	Enable alarm buzzer	NO		NO - YES	-
O5	1	Time setting: hours	-		0 - 23	hours
O5	2	Time setting: minutes	-		0 - 59	min
O5	3	Date setting: day	-		1 - 31	day
O5	4	Date setting: month	-		1 - 12	month
O5	5	Date setting: year	-		0 - 99	year
O6	1	Serial communication protocol	CAREL		CAREL - MODBUS	-
O7	1	Transmission speed	19200		1200 - 2400 - 4800 - 9600 - 19200	baudrate
O7	1	Unit serial address	1		1 - 200	-
O8	1	Language setting	ENGLISH		ENGLISH - ITALIAN - HUNGARIAN	-
O9	1	Reset all parameters to default values	NO		NO - YES	-
Oa	1	New manufacturer password	----		0 - 9999	-